

Comparisons of Job Characteristics

Focus Occupation: [Electro-Mechanical Technicians \(17-3024\)](#)

Associated Occupation: [Medical Equipment Repairers \(49-9062\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Electro-Mechanical Technicians (17-3024)
Associated Occupation: Medical Equipment Repairers (49-9062)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Computers and Electronics	8.4	15.0	16.1	0	Current knowledge level may be sufficient
Engineering and Technology	5.7	14.0	14.2	0	Current knowledge level may be sufficient
Mechanical	6.8	13.9	15.6	>	Current knowledge level is likely sufficient
Physics	4.3	8.7	6.6	<<	Extensive education and/or training may be required
Chemistry	4.8	8.2	7.5	0	Current knowledge level may be sufficient
Design	5.2	7.2	7.8	0	Current knowledge level may be sufficient
Telecommunications	3.9	7.0	3.0	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 75

Focus Occupation: Electro-Mechanical Technicians (17-3024)
Associated Occupation: Medical Equipment Repairers (49-9062)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Equipment Maintenance	3.5	13.9	10.8	<<	Extensive development of skills in this area may be required
Repairing	3.4	13.2	12.3	0	Current skill level may be sufficient
Troubleshooting	4.5	12.9	12.8	0	Current skill level may be sufficient
Quality Control Analysis	5.9	11.4	12.9	>	Skill level is likely sufficient
Operation Monitoring	6.6	11.2	13.9	>	Skill level is likely sufficient
Equipment Selection	3.3	10.2	9.2	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 90			
Focus Occupation: Electro-Mechanical Technicians (17-3024) Associated Occupation: Medical Equipment Repairers (49-9062)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Finger Dexterity	7.6	12.8	12.5	0	Current ability level may be sufficient
Visualization	7.5	12.2	10.8	<	Some improvement in abilities may be required
Perceptual Speed	7.4	9.9	11.2	>	Current ability level is likely sufficient
Hearing Sensitivity	5.6	9.4	9.8	0	Current ability level may be sufficient
Visual Color Discrimination	6.4	9.4	10.6	>	Current ability level is likely sufficient
Memorization	5.6	8.4	7.9	0	Current ability level may be sufficient
Speed of Closure	5.9	8.3	8.0	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 85
Focus Occupation: Electro-Mechanical Technicians (17-3024) Associated Occupation: Medical Equipment Repairers (49-9062)		
Work Activities	Exclusivity of Activity	
Analyze technical data, designs, or preliminary specifications	47	
Communicate technical information	4	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install electronic equipment, components, or systems	62	
Install/connect electrical equipment to power circuit	57	
Modify electrical or electronic equipment or products	74	
Read blueprints	10	
Read schematics	34	
Read technical drawings	7	
Repair or replace electrical wiring, circuits, fixtures, or equipment	49	
Solder electrical or electronic connections or components	55	
Understand service or repair manuals	40	
Understand technical operating, service or repair manuals	6	
Use electrical or electronic test devices or equipment	40	
Use hand or power tools	2	
Use knowledge of metric system	39	
Use oscilloscopes in electronics repair	77	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 80

Focus Occupation: Electro-Mechanical Technicians (17-3024)
Associated Occupation: Medical Equipment Repairers (49-9062)

Tools and Technologies	Exclusivity
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Electrical measuring and testing equipment	7
Electrochemical measuring instruments and accessories	9
Electronic and communication measuring and testing instruments	14
Forming tools	2
Holding and clamping tools	3
Indicating and recording instruments	2
Industry specific software	1
Information exchange software	1
Light and wave generating and measuring equipment	4
Machine tools	7
Measuring and layout tools	3
Metals and metallurgy and structural materials testing instruments	15
Power tools	2
Pressure measuring and control instruments	10
Prying and bending tools	10
Soldering and brazing and welding machinery and supplies	6
Viewing and observing instruments and accessories	4
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.